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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/574,591

Applicant(s): Reunamäki et al.

Filed: April 4, 2006

Art Unit: 2611

Examiner:

Title: Wideband Communication Method

Attorney Docket No.: 868A.0032.U1(US)

Customer No.: 29,683

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Supplemental Information Disclosure Statement

(37 C.F.R. §1.97(b))

Sir:

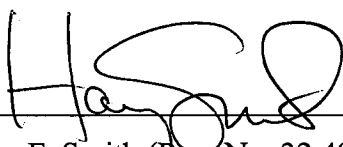
The following information is being disclosed to the U.S. Patent and Trademark Office as information that may be material to the examination of the above-identified patent application.

Applicant's Attorney is aware of the documents listed on the enclosed Form PTO-1449. Copies of the non-U.S. documents are enclosed with the Form PTO-1449 for the Examiner's use. Some of the documents listed were cited in a Search Report issued in the Finnish priority application no. 20031666. A copy of the Search Report is attached. Kindly note that US2003/189975 listed on the Finnish Search Report was previously cited in the Form PTO-1449 filed April 4, 2006.



The filing of this Statement is not to be construed as a representation that a search has been made regarding the claimed invention (37 C.F.R. §1.97(g)) or that no other possible material information exists. In addition, the filing of this Statement is not to be construed to be an admission that the information cited in the Statement is, or is considered to be, material to Patentability (37 C.F.R. §1.97(h)).

Respectfully submitted,



Harry F. Smith (Reg. No. 32,493)

12/8/2006

Date

Customer No.: 29683
Harrington & Smith, LLP
4 Research Drive
Shelton, CT 06484-6212
203-925-9400

CERTIFICATE OF MAILING

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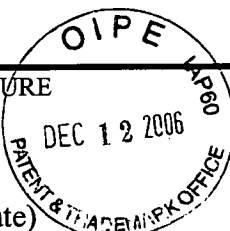
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INFORMATION DISCLOSURE
CITATION FORM FOR
PATENT APPLICATION
(FORM PTO-1449)

(Substitute)



Docket No.: 868A.0032.U1(US)

Serial No.: 10/574,591

Applicant(s): Reunamäki et al.

Filing Date: April 4, 2006

Group: 2611

U.S. PATENT DOCUMENTS

| Examiner Initials | Document Number (Number-Kind Code) | Publication Date (MM-DD-YYYY) | Name of Patentee or Applicant | Class | Sub-class |
|----------------------|---------------------------------------|----------------------------------|-------------------------------|-------|-----------|
| /CO/ | US- 2002/0061081 A1 | 05-23-2002 | Richards et al. | 375 | 346 |
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FOREIGN PATENT DOCUMENTS

| Examiner Initials | Document Number (Country Code-Number-Kind Code) | Publication Date (MM-DD-YYYY) | Name Of Patentee of Applicant | Translation? Yes/No/n/a |
|----------------------|--|----------------------------------|-------------------------------|----------------------------|
| /CO/ | WO-01/39451-A1 | 05-31-2001 | Multispectral Solutions, Inc. | |
| /CO/ | WI-01/93441-A1 | 12-06-2001 | Xtremespectrum, Inc. | |
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OTHER DOCUMENTS (Author (Capitalize), Title, Date, Pages, Etc., if known)

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Examiner's Signature: /Curtis Odom/

Date Considered: 01/19/2009

Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered.
Include a copy of this citation form with your next correspondence to the Applicant(s).

NATIONAL BOARD OF PATENTS AND REGISTRATION

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SEARCH REPORT

| PATENT APPLICATION NO. | CLASSIFICATION, IPC7 |
|------------------------|----------------------|
| FI20031666 | H04B 1/38, H04L 5/14 |

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|---|
| CLASSES SEARCHED (classification systems and class information) H04, G06 |
| DATABASES USED IN THE SEARCH EPODOC, WPI, Full-text of english patent documents |

| DOCUMENTS CITED | | |
|------------------------|--|--------------------|
| Category ^{*)} | Document identification data and indication of the relevant passages | Relevant to claims |
| X | US 2003/189975 A1 (Fullerton), publ. 9 October 2003 *Abstract, paragraphs [0014] – [0017] and [0104] – [0110] as well as figure 10. | 1-34 |
| A | US 2002/0061081 A1 (Richards et al.), publ. 23 ay 2002 | |

Continued on the next page ☐

- ^{*)} X Document based on which the invention is not novel or essentially different from prior art.
Y Document based on which the invention does not essentially differ from prior art when this and one or more documents falling into the same category are taken into consideration.
A Document defining the general state of the art.
O Document which has become available to the public through oral disclosure, use or other means excluding writing.
P Published before the date of filing of the application but not before the earliest priority date.
T Published after the date of filing or priority date of the application and cited to understand the principle or theory underlying the invention.
E Prior Finnish patent or utility model application or prior patent or utility model application pertaining to Finland which has become available to the public on or after the date of filing (priority date) of the application.
D Document cited in the application.
L Document which may throw doubts on priority or which is cited to establish the publication date of another citation or for other special reason.
& Document member of the same patent family.

See annex for further information ☐

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|----------------------|--------------------------|
| Date 10 June 2004 | Examiner Arto Anttila |
|----------------------|--------------------------|

PATENTTI- JA REKISTERIHALLITUS

Patentti- ja innovaatiolinja

PL 1160

00101 Helsinki

TUTKIMUSRAPORTTI

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| PATENTTIHAKEMUS NRO | LUOKITUS, IPC7 |
| FI 20031666 | H04B 1/38, H04L 5/14 |

TUTKITUT PATENTTILUOKAT (luokitusjärjestelmät ja luokkatiedot)

H04, G06

TUTKIMUKSESSA KÄYTETYT TIETOKANNAT

EPODOC, WPI, Full-text of english patent documents

VIITEJULKAISUT

| Kategoria*) | Julkaisun tunnistetiedot ja tiedot sen olennaisista kohdista | Koskee vaatimuksia |
|-------------|--|--------------------|
| X | US 2003/0189975 A1 (Fullerton), julk. 09.10.2003 *Tiivistelmä, kappaleet [0014] – [0017] ja [0104] – [0110] sekä kuva 10. | 1-34 |
| A | US 2002/0061081 A1 (Richards et al.), julk. 23.05.2002 | |

Jatkuu seuraavalla sivulla



- *) X Julkaisu, jonka perusteella keksintö ei ole uusi tai ei eroa olennaisesti ennestään tunnetusta tekniikasta.
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- O Tullut julkiseksi esitelmän välityksellä, hyväksikäyttämällä tai muutoin muun kuin kirjoituksen avulla.
P Julkaistu ennen hakemuksen tekemispäivää mutta ei ennen aikaisinta etuoikeuspäivää.
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E Aikaisempi suomalainen tai Suomea koskeva patentti- tai hyödyllisyysmallihakemus, joka on tullut julkiseksi hakemuksen tekemispäivänä (etuoikeuspäivänä) tai sen jälkeen.
D Julkaisu, joka on mainittu hakemuksessa.
L Julkaisu, joka kyseenalaistaa etuoikeuden, osoittaa toisen julkaisun julkaisupäivämäärän tai johon viitataan jostakin muusta syystä.
- & Samaan patenttiperheeseen kuuluva julkaisu.

Lisätietoja liitteessä

**Päiväys** **Tutkijainsinööri**

10.06.2004

Arto Anttila